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T070432

1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403		2. Expected Release Date: May 15, 1995										
3. Document Type: <table border="0"><tr><td><input type="checkbox"/> Letter</td><td>a. If letter or memo:</td></tr><tr><td><input type="checkbox"/> Memorandum</td><td>To:</td></tr><tr><td><input checked="" type="checkbox"/> Report</td><td>From:</td></tr><tr><td><input type="checkbox"/> Publication</td><td>Subject:</td></tr><tr><td><input type="checkbox"/> Other (Specify)</td><td></td></tr></table> b. If report: Title: MONTHLY REPORT - ANALYTICAL CHEMISTRY BRANCH - MAY 21, 1966 - JUNE 20, 1966			<input type="checkbox"/> Letter	a. If letter or memo:	<input type="checkbox"/> Memorandum	To:	<input checked="" type="checkbox"/> Report	From:	<input type="checkbox"/> Publication	Subject:	<input type="checkbox"/> Other (Specify)	
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6. Name and telephone number of person completing form: Anjan K. Majumder (208) 525-0206	7. Organization: Lockheed Idaho Technologies Co.	8. Date: May, 1995										

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HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

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ADDITIONAL LOCATION INFORMATION	RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY, CENTRAL FACILITIES AREA 690 (CFA-690) ROOM #102 ON FLOOR FOLDER: MONTHLY ACTIVITY REPORTS, 1958-1972	
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DOCUMENT TITLE: MONTHLY ACTIVITY REPORT - ANALYTICAL CHEMISTRY
BRANCH, MAY 21, 1966 - JUNE 20, 1966

CROSS REFERENCES:

ITEMS OF INTEREST:

John R. Horan, Director
Health and Safety Division

June 21, 1966

Claude W. Sill, Ass't Director for Technology
Health and Safety Division

MONTHLY REPORT - ANALYTICAL CHEMISTRY BRANCH - MAY 21, 1966 -
JUNE 20, 1966

HSAC:KRP

ROUTINE

Biological samples (urine, feces, veg., soil, etc.)	601
Water samples (potable, effluent, etc.)	186
Air and dusts (carbon cart., filters, etc.)	1095
Whole-body analyses	144

RESEARCH

Research continued on the americium-curium method in biological samples. Application of this method to feces and sagebrush showed several problems unique to each type of sample. These problems are currently being solved.

In the continuing research of a thorium procedure, it was found that DIBC should be preequilibrated with 6N HCl prior to the stripping of thorium. Variations in counting efficiency with source distribution was studied.

A statistical analysis of scintillation detector performance was begun. Standard alpha plates for alpha spectra of various isotopes were prepared.

A chemical separation was made to confirm neptunium 239 being present in the Chinese fallout sample. A germanium detector was used at the MTR to make a high resolution count on this fallout sample. Some Chinese fallout in milk samples was observed during the month.

Standard alpha plates for alpha spectra of various isotopes were prepared.

A study was made of mercury 203 for an individual working at MTR who had received a medical diagnostic dose.

Started the calibration of the mobile body counting van using human subjects.

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MONTHLY ACTIVITY REPORTS

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MONTHLY ACTIVITY REPORTS -

FOLDER

ANALYTICAL CHEMISTRY BRANCH
1958 - 1972

John R. Horan

-2-

June 21, 1966

At the request of Dr. D. I. Walker, Director of the Division of Compliance, Region IV, seven air samples were procured from the mill operated by the Climax Uranium Company of Grand Junction, Colorado and were radiochemically analyzed for various isotopes including: radium 226, thorium 230, polonium 210, lead 210, protactinium 231, etc. Results of these air samples were to be the principle subject at a congressional sub-committee hearing on air pollution being held in Washington D. C.

Dale G. Olson gave an oral presentation entitled "Experience and Developments in Measuring Radioactivity from Human Bodies" at the Bio-Medical meeting which was held in Idaho Falls.

WHOLE-BODY COUNTING ACTIVITIES

One hundred forty-four persons were counted at CF-690 as follows: 55 routine, 36 terminations and 53 others.

cc: John R. Horan